



MIRD XM813 30MM BRADLEY LFX DEMONSTRATION



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BACKGROUND



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The XM-813 is an improvement of the 30mm MK-44 gun developed for the FCS program, and is a part of the broader Advanced Lethality and Accuracy System for Medium Caliber (ALAS-MC) Program that was developed by ARDEC in support of PM-GCV. The purposes of this program are to achieve enhanced lethality in a medium caliber weapon system, meet the GCV IFV Primary Armament Objective requirements, and to support threshold requirements while simultaneously developing a system with growth integrated to meet future threats. The current XM-813 is a 30mm medium caliber cannon that will demonstrate optimized effects against personnel in the open or behind cover, as well as behind walls with the use of a multi-purpose fuse that provides airburst effects (AB), point detonate delay (PDD), and point detonate (PD) in one warhead. It can also provide optimized effects against like materiel targets with the kinetic energy penetrator (KE). The XM-813 is an electrically driven, chain operated, dual-feed weapon system, has first round select capability, and fires a suite of 30mm linkless ammunition. The weapon system is flexible and can be fitted to a multitude of platforms, both turreted and RWS.



PURPOSE



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- ❑ Introduce Army Leadership and the Maneuver Force to ARDEC developed XM 813 30mm cannon integrated into a man accessible turret
- ❑ Demonstrate improved accuracy, reliability and lethality of this system mounted on a combat platform
- ❑ Demonstrate increased capabilities of integrated components
 - ✓ AHS (Ammunition Handling System)
 - ✓ Downrange Wind Sensor
 - ✓ MET (
 - ✓ 30mm x 173 Suite of Ammunition (Precision Airburst Capabilities)
- ❑ Generate user feed back of the system to Armaments Research Development and Engineering Center (ARDEC).